



SUPERSTEAM
THE CHOICE OF CLEANING PROFESSIONALS

Safety Data Sheet (SDS) Z Water (pH 12.5)

Section 1: Identification

Product Identifier: Z Water (pH 12.5)
Recommended Use: Purified alkaline water suitable for cleaning various surfaces.
Non-toxic and biodegradable. Safe upon skin and food contact.

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This product is made in Singapore in a ISO 22000:2005 compliant facility.

Section 2: Hazards Identification

GHS Classification

Harmful to health

- Acute toxicity (oral): Category 5
- Acute toxicity (inhalation, mist): Category 5

Harmful to the environment

- Aquatic environment acute toxicity Not classified

Section 3: Composition / Information on Ingredients

| Component Name | CAS | Composition |
|---------------------|-----------|-------------|
| Water | 7732-18-5 | >99% |
| Potassium hydroxide | 1310-58-3 | 0.17% |

Section 4: First-Aid Measures

General Advice:

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Seek medical advice if you feel unwell. Show this safety data sheet to the doctor in attendance.

Inhalation:

If it is inhaled, move the person to a place with fresh air and keep him/her rest in a position comfortable for breathing.

Skin Contact:

If there is contact with skin, rinse with running water and wipe it dry. If there is symptom of inflammation, seek medical help.

Eye Contact:

If there is contact with eyes, immediately rinse eyes with running water for more than 15 minutes. Remove contact lenses and rinse the lenses. Seek medical help if necessary.

Ingestion:

If it is swallowed, drink large amount of water and seek medical help if necessary. Do not induce vomiting unless instructed by a physician.

Section 5: Fire-Fighting Measures

Fire extinguishing:

Select the appropriate fire extinguishing agent to the fire in the surroundings.

Special fire-fighting measure:

Because it is incombustible, select the appropriate fire extinguishing agent to the fire in the surroundings.

Personal protection:

Use appropriate protective equipment (gloves, safety glasses, masks and so on)

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency measures:

Wipe it off and avoid contact with eyes or mouth

Methods and materials for containment, cleaning up, recovery and neutralization:

Recover with suction machine to empty container and neutralize it acidic solution.

Spill and leak response:

Stop the flow of the material. Contain and absorb using appropriate absorbent material. Dispose the spilled material according to the regulation

Section 7: Handling and Storage

Precautions for Safe Handling:

- Precaution against exposure: avoid contact with eyes and mouth
- Local ventilation and general ventilation: none
- Safe handling precaution: none

Conditions for safe storage, including any incompatibilities:

- Chemicals to be mixed: none
- Appropriate storage condition: avoid direct sunlight, store indoor with good ventilation. Seal the container when it is not in use
- Safe packaging materials: use product container

Section 8: Exposure Controls/Personal Protection

Facilities:

It is advisable to handle in a facility equipped with local or general exhaust ventilation system.

Chemical name:

Purified alkaline ionized water

Allowed concentration:

Japan Society for Occupational Health allows maximum concentration of 2 mg/m³ of KOH.

Hands protection:

Use rubber gloves.

Skin and physical protection:

Long sleeve, long pants, rubber boots.

Eye protection:

Wear safety glasses as a minimum eye protection. Conditions may warrant the use of chemical goggles and possibly a face shield. Consult your standard operating procedure or safety professional for advice.

Sanitary precaution:

In the case of allergy, wash hands and face after handling.

Section 9: Physical and Chemical Properties

Appearance at 25°C: Colorless liquid

Odour: Odorless

Property:

| | |
|--------------------------------|--------------------|
| pH: | 12.5 (± 0.5) |
| Freezing point: | Not available |
| Initial boiling point / range: | 100°C (± 5°C) |
| Flashpoint: | Not available |
| Evaporation Rate: | Not available |
| Flammability: | Not available |
| Upper/lower flammability: | Not available |
| Vapour Pressure: | Non volatile |
| Vapour Density: | Not available |
| Relative Density: | 1.00 (at 25°C) |
| Solubility in water at 25°C: | Completely soluble |
| Partition Coefficient: | Not available |
| Auto-ignition temperature: | Not available |
| Decomposition temperature: | Not available |
| Viscosity: | Not available |

Section 10: Stability and Reactivity

Reactivity:

N.A.

Chemical Stability:

The product is stable.

Possibility of Hazardous Reactions:

Stable under normal conditions.

Conditions to Avoid:

Avoid freezing and excessive temperature.

Hazardous Decomposition Products:

No hazardous decomposition products are known.

Section 11: Toxicological Information

- Acute toxicity: oral, classified as category 5
- Carcinogenicity: non-carcinogenic
- Mutagenicity: non-mutagenic

Section 12: Ecological Information

Ecotoxicity Effects:

Not available

Persistence and Degradability

Fully biodegradable.

Bioaccumulative Potential

Not available

Mobility in Soil

No available information

Other Adverse Effects

N.A.

Section 13: Disposal Considerations

Dispose of all waste and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations. Recovery and reuse, rather than disposal, should be the ultimate goal of handling efforts. The materials resulting from the clean-up operations may be hazardous wastes and therefore, subject to specific regulations. Use only licensed transporters and permitted facilities for waste disposal.

Section 14: Transport Information

UN Number: N/A (not classified as hazardous)

This product is not regulated under transport regulations.

Be cautious about water leakage and handle with care to prevent spillage.

Avoid damaging the container. Avoid carrying with acidic materials.

Section 15: Regulatory Information

Applicable National Regulations:

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations:
This product is subject to the SDS, labelling and other requirements in the Act/Regulations.

Environmental Protection and Management Act: This product is subject to the requirements in the Act/Regulations.

Section 16: Other Information

Usage information

Use neat for heavy soil

Dilute 1:31 for regular wiping

Close the cap tightly after use

Expiry date: 2 years from the date of production (unopened cap, intact seal, stored in normal temperature away from high heat and direct sunlight).

Date Created and Latest Revision(s)

26 April 2016: Date of issue of SDS.

26 October 2016: Updated Section 1 with Green Label

30 November 2017: Updated Section 2 and Section 6

29 December 2017: Updated Section 16

13 March 2018: Last review without changes

23 November 2018: Updated Section 1

Product proudly manufactured in Singapore.

SuperSteam Asia Pacific Pte Ltd is a one-stop distributor of professional cleaning machines, janitorial supplies and cleaning chemicals. Please feel free to contact us if you have any questions on this product or face any cleaning problems.

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~ End of SDS ~